# BRUHAT BANGALORE MAHANAGARA PALIKE

## BILL OF QUANTITIES (BOQ)

**NAME OF THE WORK:-Providing Drinking water through borewells in Ward no. 06 Thanisandra.**

| Sl. No. | Approved Qty. | Description | Unit | Issued to Technical Manager , KRIDL | |
|---|---|---|---|---|---|
| | | | | In Figures | In Words |
| 1 | 9 | Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting venner or schlumbergers's method, including reconnaissance survey of geological formation, Geological investigation of existing ground water in vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 mtr in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc | Each BW | 1938.46 | Rupees One Thousand Nine Hundred Thirty Eight and Forty Six Paise Only |
| 2 | 450.00 | Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc<br>0 to 50 m | Rmtr | 315.18 | Rupees Three Hundred Fifteen and Eighteen Paise Only |
| 3 | 450.00 | 50 to 100 m | Rmtr | 412.00 | Rupees Four Hundred Twelve Only |
| 4 | 450.00 | 100 to 150 m | Rmtr | 458.35 | Rupees Four Hundred Fifty Eight and Thirty Five Paise Only |
| 5 | 450.00 | 150 to 200 m | Rmtr | 484.10 | Rupees Four Hundred Eighty Four and Ten Paise Only |
| 6 | 450.00 | 200 to 250 m | Rmtr | 560.32 | Rupees Five Hundred Sixty and Thirty Two Paise Only |
| 7 | 450.00 | 250 to 300 m | Rmtr | 600.49 | Rupees Six Hundred and Forty Nine Paise Only |
| 8 | 450.00 | 300 to 350 m | Rmtr | 622.00 | Rupees Six Hundred Twenty Two Only |
| 9 | 630.00 | Supplying of ISI Mark 175 mm nominal bore medium black ERW casing pipe of 5mm thick black electric resistance continous welded midle steel tube material confirming to IS 1387/!993 and manufactured from hot rolled steel skelp/stripes in random length of 4 to 7 mtr both ends threaded confirming to IS 554/1985 one end(including of all taxes) | Rmtr | 1364.75 | Rupees One Thousand Three Hundred Sixty Four and Seventy Five Paise Only |
| 10 | 90.00 | Providing and fixing 250mm dia PVC pipe and as per specification and directions. | Rmtr | 1133.00 | Rupees One Thousand One Hundred Thirty Three Only |
| 11 | 9 | 175 mm dia M.S. Casing cap | Each | 103.00 | Rupees One Hundred Three Only |
| 12 | 81 | M.S. Casing pipe collars 'C' Class | Each | 154.50 | Rupees One Hundred Fifty Four and Fifty Paise Only |

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore-92

Signature of the contractor



Executive Engineer

| No. | Approved Qty. | Description | Unit | Issued to Technical Manager , KRIDL | |
|---|---|---|---|---|---|
| | | | | In Figures | In Words |
| 13 | 9 | Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 15.000 HP 25 stage (P.NO-XXXXIII, I.NO-33, PWD SR 16-17) | No | 71020.00 | Rupees Seventy One Thousand Twenty Only |
| 14 | 4 | For Additional Motor 15 HP 30 Stage | No | 71020.00 | Rupees Seventy One Thousand Twenty Only |
| 15 | 2925.00 | Providing, laying & jointing GI pipes confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc,. complete 'A' grade(excluding cost of fittings)b50mm dia GI pipe | Rmtr | 340.26 | Rupees Three Hundred Forty and Twenty Six Paise Only |
| 16 | 1100.00 | For Additional Motor GI Pipes | Rmtr | 340.26 | Rupees Three Hundred Forty and Twenty Six Paise Only |
| 17 | 450.00 | Providing & fixing heavy duty collar | Each | 159.00 | Rupees One Hundred Fifty Nine Only |
| 18 | 180.00 | For Additional GI Heavy Duty collar | Each | 159.00 | Rupees One Hundred Fifty Nine Only |
| 19 | 5670.00 | Supplying and drawing 3 core PVC Sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS: 8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 volts 4 sqmm of 56 strands 0.3mm dia | Mtr | 164.29 | Rupees One Hundred Sixty Four and Twenty Nine Paise Only |
| 20 | 3000.00 | For Additional PVC Cable | Mtr | 164.29 | Rupees One Hundred Sixty Four and Twenty Nine Paise Only |
| 21 | 9.00 | Supplying & delivery at site brand new / Essen / Lotus sunsines/Adarsh/ Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door , canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc,. completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6.50 HP to 15.00 HP with star delta starter (MR) | No. | 14800.00 | Rupees Fourteen Thousand Eight Hundred Only |
| 22 | 4.00 | For Additional Panel Board | No. | 14800.00 | Rupees Fourteen Thousand Eight Hundred Only |
| 23 | 198000.00 | Fabricating supplying and mounting MS box of 16 SWG suitable for floor / wall mounting, fully weather proof with provision for better hear description, (providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc,. complete box of 21600 sq cm | Sqm | 0.34 | and Thirty Four Paise Only |
| 24 | 88000.00 | Additional MS Box | Sqm | 0.34 | and Thirty Four Paise Only |
| 25 | 9.00 | Providing & Fixing of clamps set and borewell cap to the pump (MR) | No's | 690.00 | Rupees Six Hundred Ninety Only |
| 26 | 27.00 | Supplying & delivery of brand new best make non return valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark ( 50mm Gate wheel Valve. (PWD SR 16-17, P.NO.XXIII, Sl.no, 659) | No's | 1282.60 | Rupees One Thousand Two Hundred Eighty Two and Sixty Paise Only |

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Signature of the contractor



Executive Engr
Byatarayanapura Division
BBMP, Bangalore-92

Executive Engineer

| No. | Approved Qty. | Description | Unit | Issued to Technical Manager , KRIDL | |
|---|---|---|---|---|---|
| | | | | In Figures | In Words |
| 27 | 27.00 | Supplying and delivery of brand new best make Gate Valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark . 50mm Gate Valve for distributer pipeline. 50mm dia (PWD SR 16-17, P.NO.XXIV, Sl.no, 673) | No's | 1749.00 | Rupees One Thousand Seven Hundred Forty Nine Only |
| 28 | 27.00 | Providing and fixing of 50mm GI bend to motor GI FITTINGS TABLE) | No's | 232.14 | Rupees Two Hundred Thirty Two and Fourteen Paise Only |
| 29 | 27.00 | Providing and fixing of 50mm GI Nipple to motor GI FITTINGS TABLE) | No's | 110.56 | Rupees One Hundred Ten and Fifty Six Paise Only |
| 30 | 27.00 | Providing and fixing of 50mm GI union to the motor ( GI FITTINGS TABLE) | No's | 237.12 | Rupees Two Hundred Thirty Seven and Twelve Paise Only |
| 31 | 9.00 | Labour Charges for end connection ( MR) | No's | 400.00 | Rupees Four Hundred Only |
| 32 | 405.00 | Labour charges for erection of new /repaired submersible pumpset along with GI pipes (32/50mm) cable (new submersible pumpset if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (each length = 6.00m) | Per length | 90.64 | Rupees Ninety and Sixty Four Paise Only |
| 33 | 9.00 | Erection of combined panel board meter board with all necessary materials and labour including providing CC 1:3:6 foundation bed etc,. Complete for basement out door type. (MR) | No's | 475.00 | Rupees Four Hundred Seventy Five Only |
| 34 | 9.00 | Supplying and fixing miniature circuit breakers/isolators in existing MCB distribution boards using necessary fixing materials and wiring complete as required, 40 to 63 Amps DP | No's | 906.40 | Rupees Nine Hundred Six and Forty Paise Only |
| 35 | 50.00 | Additional MCB | | 906.40 | Rupees Nine Hundred Six and Forty Paise Only |
| 36 | 327.00 | Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... 63 Amps | No. | 150.00 | Rupees One Hundred Fifty Only |
| 37 | 315.00 | Supplying and laying of L.T.U.G Cable having aluminiumconductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable ( confirming to IS 1554) | Mtr | 169.95 | Rupees One Hundred Sixty Nine and Ninety Five Paise Only |
| 38 | 120.00 | For Additional LTUG Cable | Mtr | 169.95 | Rupees One Hundred Sixty Nine and Ninety Five Paise Only |
| 39 | 315.00 | Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc,. Complete sutting road surfaces | Mtr | 56.65 | Rupees Fifty Six and Sixty Five Paise Only |
| 40 | 120.00 | For Additional | Mtr | 56.65 | Rupees Fifty Six and Sixty Five Paise Only |
| 41 | 27.00 | Supplying and fixing Class-A GI Pipe on pole/ wall/drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm | Mtr | 294.58 | Rupees Two Hundred Ninety Four and Fifty Eight Paise Only |
| 42 | 9.00 | Supplying and fixing wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit,/ the pit should be filled with equal proportion of salt and charocal 150 mm alround the pipe to complete depth the connections from the pipe to the conduit etc,. is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia boalts, nuts washers and checknuts etc,. the pipe shall have 16 through holes of 122mm dia | No's | 1699.50 | Rupees One Thousand Six Hundred Ninety Nine and Fifty Paise Only |
| 43 | 9.00 | Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmmUG cable filled with necessary bitumen/ insulating compound complete with terminals, clamps, bolts nuts and washers etc, | No's | 271.92 | Rupees Two Hundred Seventy One and Ninety Two Paise Only |
| 44 | 9.00 | Supplying shunt capacitor's confirming to IS 2834, 3phase 400/440 volts grade for power factor improvement of roating machinery capacitor in KVAR rating No's. (MR) | No's | 1350.00 | Rupees One Thousand Three Hundred Fifty Only |

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Signature of the contractor

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore-92

Executive Engineer

| | Approved Qty. | Description | Unit | Issued to Technical Manager , KRIDL | |
|---|---|---|---|---|---|
| | | | | In Figures | In Words |
| 45 | 27.00 | Providing and fixing Gun Metal Gate wheel valve confirming to IS specification of approved make as per direction including all lead and lift etc,. Complete. 50mm dia | No's | 1515.80 | Rupees One Thousand Five Hundred Fifteen and Eighty Paise Only |
| 46 | 9.00 | Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides with planks made out on not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs screws etc., Size 20 x 20 x 2.5 inches | No's | 311.58 | Rupees Three Hundred Eleven and Fifty Eight Paise Only |
| 47 | 1624.50 | Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications | Cum | 223.66 | Rupees Two Hundred Twenty Three and Sixty Six Paise Only |
| 48 | 3610.00 | Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.NO - 94, I.NO - 13.73.2, PWD SR 16-17) | Mtr | 368.88 | Rupees Three Hundred Sixty Eight and Eighty Eight Paise Only |
| 49 | 1624.50 | Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications | Cum | 59.36 | Rupees Fifty Nine and Thirty Six Paise Only |

1. The work should be executed as per the specification and standard specified by the PWD & Other specifications of the Bangalore Mahanagara Palike and as directed.
2. The work should be carried out as per the directions and instructions of the concerned Engineer
3. The Contractor should maintain the quality of work as per the standard specifications.

02/01

Executive Engineer (Byatarayanapura)
Bruhath Bangalore Mahanagara Palike

I am prepared to take up the above work at the rates quoted by me in the Schedule 'B'.

02/01

CONTRACTOR

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010